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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/547,191	04/11/2000	Anil Nori	50277-0370.	4144

29989 7590 04/18/2003

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EXAMINER

COLBERT, ELLA

ART UNIT	PAPER NUMBER
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3624

DATE MAILED: 04/18/2003

Please find below and/or attached an Office communication concerning this application or proceeding.



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ANIL NORI

50277-0370

EXAMINER
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K. Gilbert

ART UNIT	PAPER
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3624 27

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Commissioner of Patents and Trademarks

<b>Response to Rule 312 Communication</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/547,191	NORI ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Ella Colbert	3624	

*-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --*

1. ☒ The amendment filed on 04 March 2003 under 37 CFR 1.312 has been considered, and has been:

a) ☒ entered.

b) ☐ entered as directed to matters of form not affecting the scope of the invention.

c) ☐ disapproved because the amendment was filed after the payment of the issue fee.

Any amendment filed after the date the issue fee is paid must be accompanied by a petition under 37 CFR 1.313(c)(1) and the required fee to withdraw the application from issue.

d) ☐ disapproved. See explanation below.

e) ☐ entered in part. See explanation below.

*A Supplemental Notice of Allowance with the requested correction is attached.*

### DETAILED ACTION

1. This Office Action is in response to the Amendment Under CFR 1.312 received on March 4, 2003, entered as paper no. 26. The Notice of Allowability has been corrected to claim priority of a divisional of U.S. Application No. 08/962,415.

2. The following is an Examiner's Statement of Reasons for Allowance:

The present Application has been thoroughly reviewed. Upon searching a variety of databases, the Examiner respectfully submits that –reading data from one or more rows of the set of one or more tables, wherein the one or more rows do not store an object id used for modeling the data in the one or more rows as an object that belongs to the object class, reading database metadata that defines how to derive object ids from values in one or more columns, and generating in the manner defined by the database metadata, an object id derived from one or more values in the one or more columns in the one or more rows –in a method of independent claim 1, reading first database metadata that indicates how to generate a column object from one or more columns and reading a first set of data from the one or more columns of a plurality of rows from the set of one or more tables, wherein the second database metadata defines the one or more tables, wherein the second database metadata does not specify how to generate the column object from the one or more columns of independent claim 7, database metadata that indicates how to derive object ids from values in one or more columns and a set of one or more tables, the set of one or more tables containing one or more rows, wherein the one or more rows do not store an object id for modeling the data in the one or more rows as an object that belongs to the object class – a system of

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independent claim 16, first database metadata that defines how to generate a column object from one or more columns and second database metadata that defines the one or more tables, wherein the second database metadata does not specify how to generate the column object from the one or more columns –a system of independent claim 19, a computer readable medium carrying one or more sequences of one or more instructions for presenting data from a set of one or more tables as a set of objects that belong to an object class, wherein the execution of the one or more sequences of the one or more instructions causes the one or more processors to perform the steps of reading data from one or more rows of the set of one or more tables, wherein the one or more rows do not store an object id used for modeling the data in the one or more rows as an object that belongs to the object class and reading database metadata that defines how to derive object ids from values in one or more columns in independent claim 20 and a computer-readable medium carrying one or more sequences of one or more instructions for presenting, as an object, data from a set of one or more tables residing in one or more database, wherein the execution of the one or more sequences of the one or more instructions causes the one or more processors to perform the steps of reading first database metadata that defines how to generate a column object from one or more columns and reading a first set of data from the one or more columns of a plurality of rows from the set of one or more tables, wherein second database metadata defines the one or more tables, wherein the second database metadata does not specify how to generate the column object from the one or more columns in independent claim 26, is not taught by the prior art of record (PTO-892, 1449).

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Therefore, all pending claims are hereby allowed.

Since allowable subject matter has been indicated, Applicant is encouraged to submit formal drawings in response to this Office Action. The early submission of formal drawings will permit the Office to review the drawings acceptability and to resolve any informalities remaining therein before the application is passed to issue. This will avoid possible delays in the issue process.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Katin et al (US 5,261,098) disclosed object type attributes and values in a table.

Knudsen et al (US 5,594,899) disclosed accessing and retrieving objects, a plurality of tables and metadata.

Wlaschin et al (US 5,729,730) disclosed a self-referential table, an object id, rows, columns, and attributes.

Carey (US 6,122,627) disclosed view objects, a class definition, a relational database, nested objects, rows, tables, object-oriented databases, columns, and metadata.

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Shen et al (US 5,596,746) disclosed object modeling, classes, and a meta model.

#### **Inquiries**

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ella Colbert whose telephone number is 703-308-7064. The examiner can normally be reached on Monday-Thursday from 6:30 am -5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vincent Millin can be reached on 703-308-1038. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-7687 for Official communications and 703-746-5622 for Unofficial communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1113.



E. Colbert  
April 16, 2003



**HANI M. KAZIMI**  
**PRIMARY EXAMINER**